

Patent claims

1. A heating assembly with at least one PTC element,
in particular for a motor vehicle, the PTC element
5 (2) being arranged between two contact plates (3,
4) which serve for making electrical connection,
and the heating assembly (1) having a frame (7),
characterized in that at least one of the two
contact plates (3) has an offset outside the frame
10 (7), the offset part of the projecting part (10) of
the contact plate (3) running parallel to the
remaining part (11) of the contact plate (3).
2. The heating assembly as claimed in claim 1,
15 characterized in that the frame (7) is formed in an
insulating manner.
3. The heating assembly as claimed in claim 1 or 2,
characterized in that the frame (7) has spacers
20 (12), which are arranged between mutually assigned
contact plates (3, 4).
4. The heating assembly as claimed in claim 3,
characterized in that two spacers (12) are provided
25 on mutually opposite sides of the frame (7) for
each pair of mutually assigned contact plates (3,
4).
5. The heating assembly as claimed in one of the
30 preceding claims, characterized in that between
neighboring heating sections (8) there is formed a
distance which is respectively formed by a PTC
element (2), a pair of mutually assigned contact
plates (3, 4) and corrugated ribs (6).
- 35 6. The heating assembly as claimed in one of the
preceding claims, characterized in that the contact

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plates (3, 4) and the PTC element (2) are bonded to one another by means of an adhesive or a solder.

- 5 7. The heating assembly as claimed in one of the preceding claims, characterized in that the contact plates (3, 4) and the corrugated ribs (6) are bonded to one another by means of an adhesive or a solder.
- 10 8. The heating assembly as claimed in one of the preceding claims, characterized in that a further plate (13) is attached to the corrugated rib (6) on the side opposite from the contact side of the contact plate (3, 4) and the corrugated rib (6).
- 15 9. The heating assembly as claimed in claim 8, characterized in that the plate (13) consists of an insulating material.
- 20 10. The heating assembly as claimed in claim 8, characterized in that the plate (13) consists of aluminum.
- 25 11. The heating assembly as claimed in one of claims 1 to 10, characterized in that the heating assembly (1) comprises a number of independent heating sections (8).